



BIM Education - A Multidisciplinary Analysis

Comiskey, D., Alexander, G., Eadie, R., Hamill, M., McKane, M., & Weatherup, R. (2013). BIM Education - A Multidisciplinary Analysis. In *Unknown Host Publication* Construction IT Alliance.

[Link to publication record in Ulster University Research Portal](#)

Published in:
Unknown Host Publication

Publication Status:
Published (in print/issue): 15/11/2013

Document Version
Publisher's PDF, also known as Version of record

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Thursday 14th and Friday 15th November 2013 Guinness Storehouse, Dublin



CITA BIM Gathering
International Conference

The Programme



The Programme

Leveraging Building Information Modeling
to Transform the AEC Sector



Day One Thursday 14th November Morning Sessions

08.00 - 09.00 Registration, Tea & Coffee

Plenary Session	09.00 - 09.10	Conference Welcome Address	Alan V Hore, Conference Chair	Arrol Suite
	09.10 - 09.15	Plenary Session: Introduction	Chair: John McGowan, Director, CITA Limited	
	09.15 - 09.45	Ireland's Construction Sector Outlook and Strategic Plan to 2015: What Now?	Celine McHugh, Senior Policy Advisor, Forfás	
	09.45 - 10.15	Keynote Address: Architects, Life Cycle and Standards - Key Ingredients for Change	Dana K. "Deke" Smith, Executive Director, buildingSMART Alliance, USA	
	10.15 - 10.45	Keynote Address: Towards a "Digital Built Britain"	David Philp, Head of BIM, UK BIM Task Group	
	10.45 - 11.00	NI BIM Hub Group update	Melanie Dawson, Chair CIC Northern Ireland BIM Hub	
	11.00 - 11.20	Questions and Answers		
	11.20 - 11.45	Tea & Coffee		

Breakout Sessions	11.45 - 11.50	National BIM Implementation Initiatives	Chair: NDFA, Damien Duffy	Arrol Suite
	11.50 - 12.10	How accurate is the design model? The integration of products and services into information needs	John Hunt, Enterprise Ireland	
	12.15 - 12.35	Public/Private BIM: An Irish Perspective	John Deeney, Barry McAuley and Alan Hore, DIT	
	12.40 - 13.00	Bringing Your BIM Data to Life	Scott Grant, Soluis Studios	
	11.45 - 11.50	Cultural Change Management and BIM	Chair: RIAI, Michelle Fagan	Golden Barley
	11.50 - 12.10	Collaboration: The Keystone of BIM	David Ward, RPS Consulting	
	12.15 - 12.35	The new normal and a digital construction industry in the UK	John Eynon, Open Water Consulting	
	12.40 - 13.00	Exploiting Point-Clouds in the context of BIM	Robert Klaschka, Studio Klaschka; Neville Glanville, Bentley Systems	
	11.45 - 11.50	Lean Transformation and BIM	Chair: IStructE, Joe Ryan	Toucan
	11.50 - 12.10	The current state of art of bridge information modelling from conceptual design through to operation	Aonghus O'Keeffe, Roughan & O'Donovan Consulting Engineers	
	12.15 - 12.35	Designing a framework for exchanging partial sets of BIM information on a cloud based service	Alan Martin Redmond, Anglia Ruskin University, Roger West, TCD and Alan Hore, DIT	
	12.40 - 13.00	Extracting BIM Data for Cost Planning and Estimating	Martin Marks, Exactal	
	11.45 - 11.50	Education and Training Initiatives	Chair: TCD, Roger West	Coopers
	11.50 - 12.10	BIM adoption in university teaching programs: The Swedish Case	Niclas Andersson, Halmstad University	
	12.15 - 12.35	Update on the BIM education of Geomatics surveyors	Avril Behan, DIT	
	12.40 - 13.00	BIM: More than just a pretty picture	David Grainger, NBS	
	11.45 - 11.50	Case Studies	Chair: SCSi, Claire Crowley	Pelican
	11.50 - 12.10	Building Information Modelling: Project Case Study	Eric Nulton and Edward Gannon, Penn State, Virtual Facilities Group	
	12.15 - 12.35	Evaluation of renewable energy strategies using Building Information Modeling for energy simulation	Aydin Tabrizi and Paola Sanguinetti, University of Kansas	
	12.40 - 13.00	Live BIM and Build Demonstration	David Evans, Trimble Buildings	

13.00 - 14.00 Lunch

Short Recess

Arrol Suite Golden Barley Toucan Coopers Pelican

The Programme

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Day One Thursday 14th November Afternoon Sessions



Plenary Session

14.00	Plenary Session: Introduction	Chair: Tom Parlon, Director General, Construction Industry Federation	Arrol Suite
14.00 - 14.30	Keynote Address: The Human (Only) Side of BIM	Laura Handler, Director of Service Design, Tocci Building Companies	
14.30 - 15.00	Keynote Address: Lean Construction and Technology: Reconceiving the Connection	Gregory Howell, Lean Construction Institute	
	Panel Discussion: 'BIM to Win'		
15.00 - 15.10	Martin McGrath	Director, O'Connor Sutton Cronin	
15.10 - 15.20	Lorraine Brady	Bid Manager, BAM Contractors	
15.20 - 15.30	Richard de Palma	Senior Architect, RKD Architects	
15.30 - 15.45	Questions and Answers		
15.45 - 16.00	Tea & Coffee		

Breakout Sessions

16.00 - 16.05	National BIM Implementation Initiatives	Chair: ACEI, Kevin Rudden	Arrol Suite
16.05 - 16.25	A comparison of traditional and integrated project delivery design processes on international BIM competitions	Graham Kelly, Michael Serginson, Northumbria University, George Mokhtar, BIM Academy UK	
16.30 - 16.50	Creating interactive facilities management capabilities through BIM as a tool for managing the Irish public sector	B. McAuley, A. Hore, DIT, R. West, TCD, D. Rowland, Dept. FM, Gov. Property Unit, UK	
16.55 - 17.15	A peek @ (Built)X Cultures	James Salmon, Collaborative Construction	
16.00 - 16.05	Cultural Change Management and BIM	Chair: Engineers Ireland, Aonghus O'Keeffe	Golden Barley
16.05 - 16.25	Developing effective BIM implementation methodologies within an owner organisation	Edward Gannon and Eric Nulton, Penn State University	
16.30 - 16.50	Field-BIM & Asset Management	Niall Kane, Murphy Surveys	
16.55 - 17.15	Macro BIM: A Unique Solution to the AEC Industry at Concept Stage	Gearóid Maguire, Programme Project Management Ltd	
16.00 - 16.05	Lean Transformation and BIM	Chair: CIF, Sean Downey	Toucan
16.05 - 16.25	"Defrag" the system	Ralph Montague and Patrick Slattery, ArcDox	
16.30 - 16.50	Laser scan to BIM - A new approach for generating as-built Building Information Models from point cloud data	Conor Dore and Maurice Murphy, DIT	
16.55 - 17.15	Laser Scan to 3D model of existing buildings	Enda Nolan, Coastway and Nick Polley, 3rd Dimension	
16.00 - 16.05	Education and Training Initiatives	Chair: LYIT, Anne Boner	Coopers
16.05 - 16.25	Collaborative BIM learning via an academia-industry partnership	Ken Thomas, Brian Graham, Gordon Chisholm, Brian Dempsey, Robin Stubbs, Waterford IT	
16.30 - 16.50	BIM introduction into the curriculum of civil & structural engineering	Oliver Kinnane and Roger West, Trinity College Dublin	
16.55 - 17.15	Mudshark - Earthworks for your BIM process	Michael Kirwan, Building Software Services Ltd.	
16.00 - 16.05	Case Studies	Chair: ICES, James Golden	Pelican
16.05 - 16.25	Implementing BIM for Light Rail Projects in Norway	John McNerney, Breda Corrigan and David Weldon, Mott MacDonald	
16.30 - 16.50	Can Leading BIM Suites do it all?	Philip Tyrrell and Gary McElroy, Headcount Engineering	
16.55 - 17.15	BIM to FM	Brendan O'Riordan, Zutec Inc Irl Ltd	

19.00-23.00	Conference Dinner, Jameson Distillery	Guest Speaker: Norman Crowley, Crowley Carbon
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The Programme

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Day Two Friday 15th November Morning Sessions

08.00 - 09.00 Registration, Tea & Coffee

Plenary Session

09.00	Opening Address	Chair: Ciaran O'Connor, FRIAI, State Architect, Office of Public Works	Arrol Suite
09.00 - 09.30	Keynote Address: Dream For Tomorrow	Finith Jernigan, President, Design Atlantic & Author of "BIG BIM little bim"	
09.30 - 10.00	Keynote Address: BIM as an Intelligent Investment: Imagine the Future	Laura Lee, Carnegie Mellon University, USA	
10.00 - 10.30	Grangegorman: Challenges and Opportunities in developing DIT's new city centre campus	Louis Gunnigan, Team Leader for Engineering & the Built Environment, DIT Campus Planning	
10.30 - 10.45	Questions and Answers		
10.45 - 11.15	Tea & Coffee		

Breakout Sessions

11.15 - 11.20	National BIM Implementation Initiatives	Chair: IGBC, Pat Barry	Arrol Suite
11.20 - 11.40	Establishing key performance indicators to measure the benefit of introducing the FM at an early stage in BIM	Barry McAuley, Alan Hore, DIT and Roger West, TCD	
11.45 - 12.05	Investigating the application of BIM-M on small scale construction projects	Gerard Nicholson, Jim O'Connor and Patrick Tobin, GMT	
12.10 - 12.30	The Challenge of Integrating COBie into Project Handover Documentation	Bobby Gallager, DFM Systems	
11.15 - 11.20	Cultural Change Management and BIM	Chair: OPW, Gerard Bourke	Golden Barley
11.20 - 11.40	Identifying opportunities for quantity surveyors to enhance and expand the traditional QS role through BIM	Claire Crowley, KMCS Quantity Surveyors and the SCSI	
11.45 - 12.05	The need for a model custodian	Gary McElroy and Philip Tyrrell, Headcount Engineering	
12.10 - 12.30	BIM: The Client's Role in Successful Adoption	Benedict Wallbank, Graphisoft	
11.15 - 11.20	Lean Transformation and BIM	Chair: CIBSE, Kevin Kelly	Toucan
11.20 - 11.40	CPP13: Rowlestown Community Centre - "Vision in Action"	Paul Sexton, SCEG Ltd, Bernard Voortman, Cummins and Voortman Ltd	
11.45 - 12.05	The adoption of BIM within the Public Works Contracts (PWC) Suite of Construction Contracts in Ireland	Simon Fraser, Hussey Fraser Solicitors	
12.10 - 12.30	The BIM Revolution with Leica Geosystems	Charlie Matthews, Leica Geosystems	
11.15 - 11.20	Education and Training Initiatives	Chair: Waterford IT, Ken Thomas	Coopers
11.20 - 11.40	How are the educational institutes of Ireland embracing the paradigm shift towards BIM?	Michael McDonald and Stephen Donoghue, DIT	
11.45 - 12.05	3D Laser Scanning for BIM Applications	David Southam, Faro Technologies UK Ltd	
12.10 - 12.30	Achieving Lean Principles through BIM: An Irish Perspective	Paul Ebbs, Construction Innovation Lab, DIT	
11.15 - 11.20	Case Studies	Chair: LSI, Eamonn Conlon	Pelican
11.20 - 11.40	The curriculum development of a BIM resilience program for the National Inst. of Building Science facility module	Alan Martin Redmond, Anglia Ruskin University, Robert Smith, California State University, Dana Smith, National Institute of Building Sciences	
11.45 - 12.05	The Evolution of Digital Data during the design and construction of a large infrastructure project	David Ward, Ciaran Butler, Bryan Coyle and Saeed Khan, RPS Consulting Engineers	
12.10 - 12.30	How BIM is changing the way we use data - Reliable Information, On Demand	David Jellings, Solibri UK	

12.30 - 13.30 Lunch

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Day Two Friday 15th November Afternoon Sessions



Breakout Sessions

13.30 - 13.35	National BIM Implementation Initiatives	Chair: CIOB, John Eynon	Arrol Suite R R
13.35 - 13.55	CIOB and BIM in the UK	John Eynon, CIOB	
14.00 - 14.20	Transforming BIM to BEM: Generation of Building Geometry for the NASA Ames Sustainability Base BIM	James O'Donnell, UCD	
14.25 - 14.45	BIM in practice with Vectorworks	Manfredi Anello, Vectorworks	
13.30 - 13.35	Cultural Change Management and BIM	Chair: IPFMA, Vincent Hickey	Golden Barley R R
13.35 - 13.55	Don't let BIM Beat You	Paul Brennan and Michael Murphy, BAM Contractors	
14.00 - 14.20	SmartBuilder Software - Launch of New Enterprise App	Peter Daly, SmartBuilder Software	
14.25 - 14.45	Getting the correct "I" in BIM	Chris Lovelock, ICON	
13.30 - 13.35	Lean Transformation and BIM	Chair: CIAT, David Heesom	Toucan R R
13.35 - 13.55	Linking Life Cycle Cost Data Requirements to Parametric Building Information Models	Dermot Kehily, Trevor Woods and Fiacra McDonnell, DIT	
14.00 - 14.20	Strategic BIM: Moving Beyond Project Delivery	Dominic Thasarathar, Autodesk	
14.25 - 14.45	Dynamically relating 2D documentation to the 3D model on your mobile device	Andrew Norrie, Graphisoft	
13.30 - 13.35	Education and Training Initiatives	Chair: GMIT, Mary Rogers	Coopers R R
13.35 - 13.55	BIM education - A multidisciplinary analysis	D. Comiskey, G. Alexander, R. Eadie, M. Hamill, M. McKane & R. Weatherup, Ulster University	
14.00 - 14.20	BIM Collaboration: A pedagogy for reacculturation	Malachy Mathews, DIT	
14.25 - 14.45	The lifecycle of BIM: A university project case study	Tomo Cerovsek, University of Ljubljana	
13.30 - 13.35	Case Studies	Chair: IPI, Sean O'Leary	Pelican R R
13.35 - 13.55	Enabling and Supporting BIM on Projects	Patrick Slattery, ArcDox	
14.00 - 14.20	A Decade of BIM: What have we Learned?	Robert Cummins, Cummins & Voortman Ltd	
14.25 - 14.45	Application of BIM Technologies in Managing a Modern Construction Project	Veljko Janjic, Bexel Consulting	

14.45 - 15.00 Tea & Coffee

Plenary Session

15.00	Opening Address	Chair: Mike Murphy, Dublin Institute of Technology	Arrol Suite
15.00 - 15.30	Keynote Address: Construction Today, a Client's Perspective	David O'Leary, Engineering Excellence Director, Diageo Global Supply	
	Panel Discussion: BIM in the UK		
15.30 - 15.40	Calbhac O'Carroll	Managing Director, Reddy Architecture + Urbanism	
15.40 - 15.50	Richard O'Farrell	CEO, Engineering Design Consultants	
15.50 - 16.00	Martin Searson	M&E Quality Manager, Kirby Group Engineering	
16.00 - 16.20	Questions and Answers		
16.20 - 16.45	Conference Awards and Close	Alan V Hore, Conference Chair	